

### **Amendments to the Claims:**

This listing will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

Claim 1 (Currently amended): A UV-resistant material which comprises a material, characterized in that the material use molecular sieve based host-guest nano-composite which is resistant to materials as the ultraviolet radiation. absorption agent.

Claim 2 (Currently amended): The UV-resistant material of claim 1, wherein the host-guest nano-composite comprises a host material of molecular sieve based — materials is selected from one or more types of microbore zeolite molecular sieve materials.  
sieve such as X, Y, A, STI, ZSM-5.

Claim 3 (Currently amended): The UV-resistant material of claim 1, wherein the host-guest nano-composite comprises a guest material of the molecular sieve based host-guest nano-composite material is selected from one or more of TiO<sub>2</sub>, ZnO, CeO<sub>2</sub>, and Fe<sub>2</sub>O<sub>3</sub> metal oxide nano-clusters. nano-cluster.

Claim 4 (Currently amended): ~~The preparation~~ A method of producing a UV-resistant material that has a molecular sieve based host-guest nano-composite structure which method comprises providing of claim 1, characterized in that the method using any one

or more of  $\text{TiCl}_3$ ,  $\text{ZnCl}_2$ ,  $\text{Zn}(\text{NO}_3)_2$ ,  $\text{CeCl}_3$ ,  $\text{Ce}(\text{NO}_3)_3$ ,  $\text{FeCl}_3$ ,  $\text{Fe}(\text{NO}_3)_3$ ,  $\text{FeSO}_4$  as the initiating material and synthesizing the formation of ~~to synthesize the~~ host-guest nano-composite materials by means of ion exchange, whereby at least one of ~~which are~~  $\text{TiO}_2$ ,  $\text{ZnO}$ ,  $\text{CeO}_2$ , and  $\text{Fe}_2\text{O}_3$  metal oxide nano-clusters and couple to the molecular sieve compound, the compound and produce a product ~~is used as the ultraviolet absorption agent to obtain the~~ UV-resistant material.

Claim 5 (Currently amended): The ~~preparation~~ method of claim 4, wherein the ion exchange ~~method include~~ process comprises following steps:

- a) dissolving the initiating material in water,
- b) adding a molecular sieve material into the solution of step a),
- c) resting or stirring the mixture from step b) for 1~6 hours,
- d) filtering a product from the rested mixture,
- e) ~~filtrating,~~ washing, and drying, and torrefying the product from step d) for 4-24 hours at 400-600°C.

Claim 6 (Currently amended): The ~~preparation~~ method of claim 4, wherein the ion exchange ~~method include~~ process comprises following steps:

- a) dissolving the initiating material in water,
- b) adding low-silicon molecular sieve material into the solution from step a),
- c) resting the mixture from step b) for 1 hour,
- d) filtering a product from the rested mixture,
- e) ~~filtrating,~~ subjecting the product from step d) to washing, and drying at

80°C, and torrefying for 12 hours at 500°C.

Claim 7 (Currently amended): ~~The preparation method of UV-resistant material of claim 1, characterized in that the method using butyl titanate as the initiating material~~  
comprises butyl titanate and to synthesize a host-guest nano-composite materials of  
material having a TiO<sub>2</sub> cluster within molecular molecular sieve compound material is  
produced by means of a hydrolytic reaction. ~~reaction, the product is used as the~~  
~~ultraviolet absorption agent to obtain the UV-resistant material.~~

Claim 8 (Currently amended): ~~The preparation method of claim 7, wherein the~~  
~~hydrolytic reaction include~~ comprises following steps: Steps:

- a) mixing butyl titanate with a high-silicon molecular sieve material in a non-polar  
~~solvent, with solvent under~~ inert gas shielding,
- b) refluxing and agitating the mixture from step a) for 4-48 hours at 50 -100°C,
- c) washing the a product from step b) with an by alcohol based type solvent,
- d) drying the product from step c) at 60-100°C, and
- e) torrefying the dried product for 4-24 hours at 400-600°C.

Claim 9 (Currently amended): ~~The use of~~ A cosmetic formulation that comprises the  
UV-resistant material of claim 1, ~~in cosmetics.~~

Claim 10 (Currently amended) ~~The use of~~ A coating composition that comprises the  
UV-resistant material of claim 1, ~~in coatings.~~

Claim 11 (Currently amended): ~~The use of~~ A rubber composition that comprises the UV-resistant material of claim 1, ~~in rubber or plastics industry.~~

Claim 12 (New): A plastic composition that comprises the UV-resistant material of claim 1.

Claim 13 (New): The UV-resistant material of claim 2, wherein sieve material comprises at least one type of sieve material selected from X, Y, A, STI, and ZSM-5 type sieve materials.